

Message Text

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ACTION AEC-07

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FM AMEMBASSY MOSCOW

TO SECSTATE WASHDC PRIORITY 4773

UNCLAS MOSCOW 17608

PASS AEC

E.O. 11652: NA

TAGS: TPHY TECH UR

SUBJ: US-USSR ATOMIC ENERGY AGREEMENT: CTR: MHD THEORY

REF: STATE 251418

1. DEPARTMENT REQUESTED INFORM DR. ROBERT HIRSCH AND MR. B.D. HILL OF AEC THAT EMBASSY HAS RECEIVED LETTER FROM VELIKHOV REGARDING FORTHCOMING VISIT OF FOUR-MAN SOVET TEAM ON MHD THEORY. KHOKHLOVA OF SCAE PROVIDED ADDITIONAL DETAILS ON VISIT.

2. GROUP WILL ARRIVE AT NEW YORK NOVEMBER 24 ON AEROFLOT FLIGHT FROM MOSCOW. EMBASSY HAS STILL NOT RECEIVED AUTHORIZATION TO ISSUE VISAS TO GROUP AND URGENTLY REQUIRES THIS BY OPENING OF BUSINESS (MOSCOW TIME) NOVEMBER 22.

3. SOVIET DELEGATION AGREES TO HIRSCH'S PROPOSAL THAT ALL MEMBERS SPEND FIRST AND SECOND WEEKS AT PRINCETON AND OAK RIDGE RESPECTIVELY. HOWEVER, ALL FOUR MEMBERS WISH TO SPEND THIRD WEEK AT LOS ALAMOS. GROUP WOULD THEN LIKE SPLIT INTO TWO SUBGROUPS WITH FAVORSKIY AND GREBENSHIKOV GOING TO

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NEW YORK UNIVERSITY AND ARTEMENKOV AND SMIRINOV GOING

TO MIT.

4. IN HIS LETTER, BELIKHOV ADDS THAT THE DELEGATION WOULD LIKE TO DISCUSS PROGRAMS FOR CALCULATING THE ENERGY BALANCE AND EQUILIBRIUM OF PLASMA IN TOKOMAKS AND TO EXAMINE METHODS FOR CALCULATING THE BRADING (BREMSSTRAUHLUNG?) AND RECOMBINING OF RADIATION FROM HEAVY IMPURITIES AND THE BEHAVIOR OF INJECTED PARTICULES IN PLASMA. GROUP ALSO WISHES TO GAIN FAMILIARIZATION WITH THE METHODS AND ALGORITHMS FOR CALCULATING THE DYNAMICS OF PLASMA IN THETA PINCHES. IN ADDITION, DRS. ARTEMENKOV AND MIRNOV WOULD LIKE, IF POSSIBLE, TO FAMILIARIZE THEMSELVES WITH EXPERIMENTS ON THE "ALKATOR" AT MIT.

5. SOVIET SIDE IS PRESENTLY PREPARING A PROGRAM FOR THE MEETING ON IMPULSE REACTORS, WHICH WAS INCLUDED IN THE WORK PLAN FOR 1975. THE SOVIET PROPOSALS WILL BE PROVIDED IN THE NOT TOO DISTANT FUTURE.

6. VELIKHOV ALSO EXPRESSES HIS THANKS FOR VOLUMES TWO AND THREE OF THE "TCT" APPARATUS DESIGN. MATERIALS ON THE SOVIET DESIGN WILL BE PROVIDED AS SOON AS THEY ARE READY.
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